

AMENDMENTS TO THE CLAIMS

In the Claims:

Please cancel Claims 1-9 and 18-27 without prejudice. Please amend Claims 10-17, 28, and 29. A complete copy of the claims including marked-up versions of each claim that is amended in this Amendment appears below.

1 Claims 1-9 (Cancelled)

1 10. (Amended) An apparatus for electronic control of fluid flow which enables fluid
2 flow when an object is in proximity with the apparatus and for communicating with a
3 communication device, ~~the~~ said apparatus comprising:

4 a transmitter for transmitting ~~a detection~~ signals;

5 a receiver for receiving ~~a reflected detection~~ signals ~~and for receiving a~~

6 ~~communication signal; and~~ of the type transmitted by said transmitter, wherein when an

7 object is located in proximity with said apparatus the object will reflect said signals

8 transmitted by said transmitter to said receiver where said reflected signals will be

9 received;

10 a logic controller which is configured to control fluid flow based on said reflected

11 ~~detection signal.~~ signals;

12 wherein said logic controller is configured to cause said transmitter to send signals

13 relating to the performance of said apparatus to an external portable communication

14 device, and wherein said logic controller is configured to implement instructions relating
15 to the operation of said apparatus based upon signals received by said receiver from the
16 external portable communications device.

1 11. (Amended) The An apparatus ~~of claim 10~~ as defined in Claim 10, wherein ~~each of~~
2 ~~the said~~ signals ~~is an~~ transmitted by said transmitter and received by said receiver are
3 infrared signals.

1 12. (Amended) The An apparatus ~~of claim 10~~ as defined in Claim 10, wherein the
2 ~~detection said~~ signals ~~is a~~ transmitted by said transmitter and received by said receiver are
3 sequences of pulses.

1 13. (Amended) The An apparatus ~~of claim 10~~ as defined in Claim 10, wherein the said
2 logic controller is configured to detect, in said ~~communication~~ signals transmitted by said
3 transmitter and received by said receiver, information for updating the said logic
4 controller.

1 14. (Amended) The An apparatus ~~of claim 10~~ as defined in Claim 10, wherein the said
2 receiver comprises a detection photo ~~detector~~, detector and a communication photo
3 detector.

1 15. (Amended) ~~The~~ An apparatus ~~of claim 10~~ as defined in Claim 10, wherein ~~the~~ said
2 logic controller is configured to cause a latching solenoid valve to open when ~~the~~ said
3 reflected ~~detection~~ signal exceeds a threshold value.

1 16. (Amended) ~~The~~ An apparatus ~~of claim 10~~ as defined in Claim 10, wherein ~~the~~ said
2 receiver comprises a single photo detector coupled to ~~the~~ said logic controller.

1 17. (Amended) ~~The~~ An apparatus ~~of claim 16~~ as defined in Claim 16, wherein the
2 ~~coupling comprises~~ said single photo detector is coupled to said logic controller by a low
3 pass filter for passing the frequencies of the said reflected ~~detection~~ signal, signal and a
4 high pass filter passing the frequencies of ~~the communication~~ said signals received by
5 said receiver from the external portable communications device.

1 Claims 18-27 (Cancelled)

1 28. (Amended) An apparatus for electronic control of fluid flow which enables fluid
2 flow when an object is in proximity with the apparatus, ~~the~~ said apparatus comprising:
3 a transmitter for transmitting a ~~detection~~ signal;
4 a receiver for receiving a signal of the type transmitted by said transmitter, wherein
5 when an object is located in proximity with said apparatus the object will reflect said

6 signal transmitted by said transmitter to said receiver where said reflected signal will be
7 received;

8 a logic controller which is configured to control fluid flow based on said reflected
9 detection signal; and signal, wherein when the object is in sufficient proximity to said
10 apparatus, said logic controller will enable fluid flow, said logic controller being
11 configured to cause said transmitter to send signals relating to the performance of said
12 apparatus to an external portable communication device, said logic controller being
13 configured to implement instructions relating to the operation of said apparatus based
14 upon signals received by said receiver from the external portable communications device
15 wherein said logic controller is configured to cause said transmitter to send signals
16 relating to the performance of said apparatus to an external portable communication
17 device.

18 ~~a receiver, said receiver including a detection photo detector for receiving the~~
19 ~~reflected detection signal and for coupling the reflected detection signal to the logic, said~~
20 ~~receiver including a communication communication photo detector for receiving the~~
21 ~~communication signal and for coupling the communication signal to the logic.~~

1 29. (Amended) ~~The aparatus~~ An apparatus as defined in Claim 28, wherein said
2 apparatus is configured to communicate with a portable ~~communciation~~ communication
3 device.